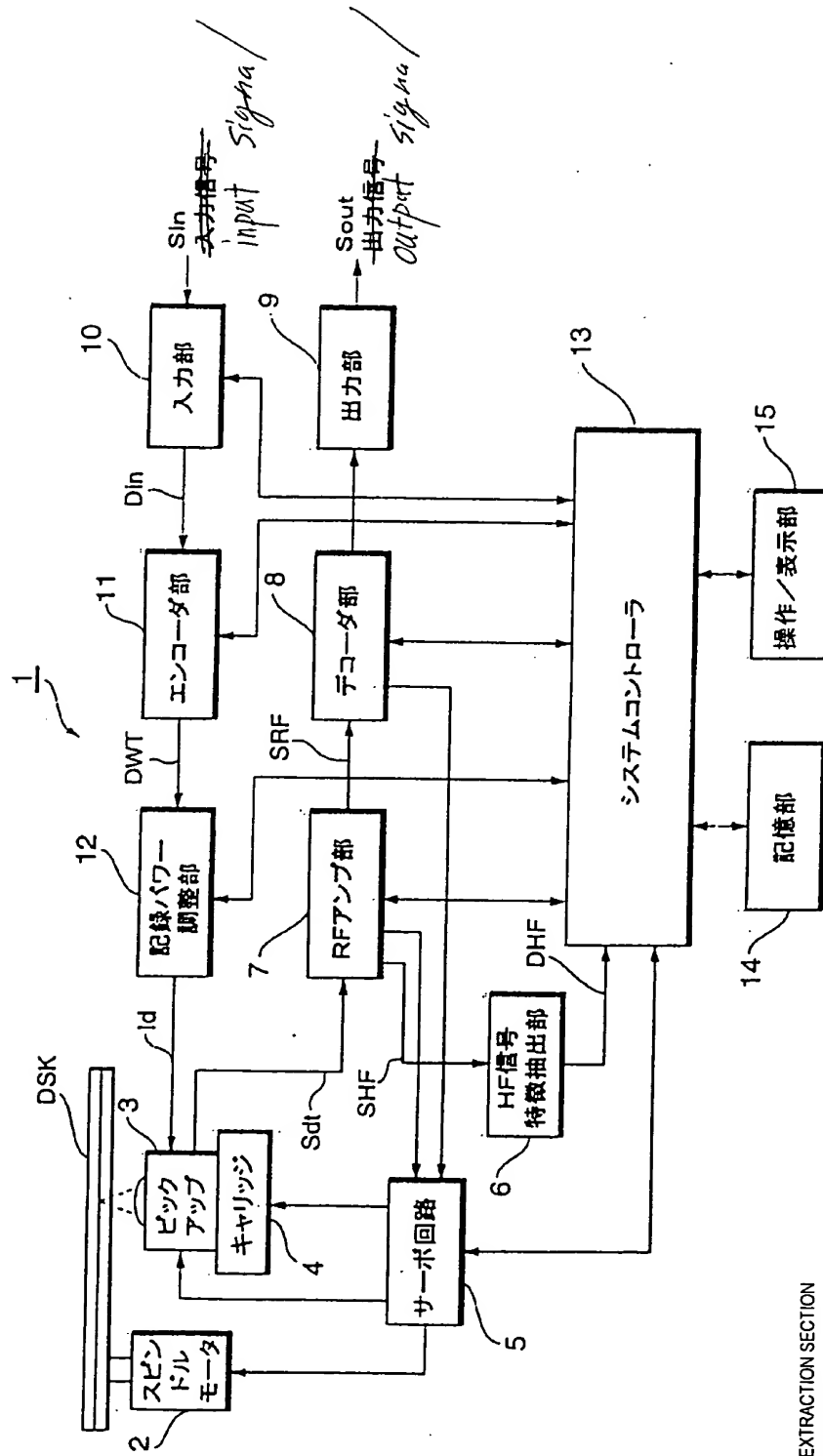


TOP SECRET 50

Fig.



- 2 SPINDLE MOTOR
- 3 PICKUP
- 4 CARRIAGE
- 5 SERVO CIRCUIT
- 6 HF SIGNAL FEATURE EXTRACTION SECTION
- 7 RF AMPLIFICATION SECTION
- 8 DECODER SECTION
- 9 OUTPUT SECTION
- 10 INPUT SECTION
- 11 ENCODER SECTION
- 12 RECORD POWER ADJUSTMENT SECTION
- 13 SYSTEM CONTROLLER
- 14 STORAGE SECTION
- 15 OPERATION/DISPLAY SECTION

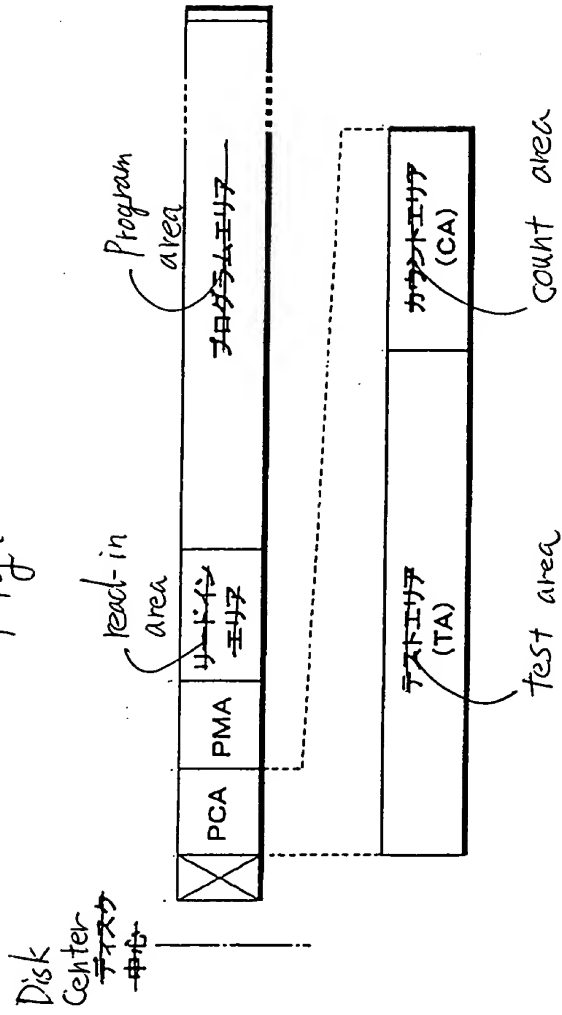
Fig. 2

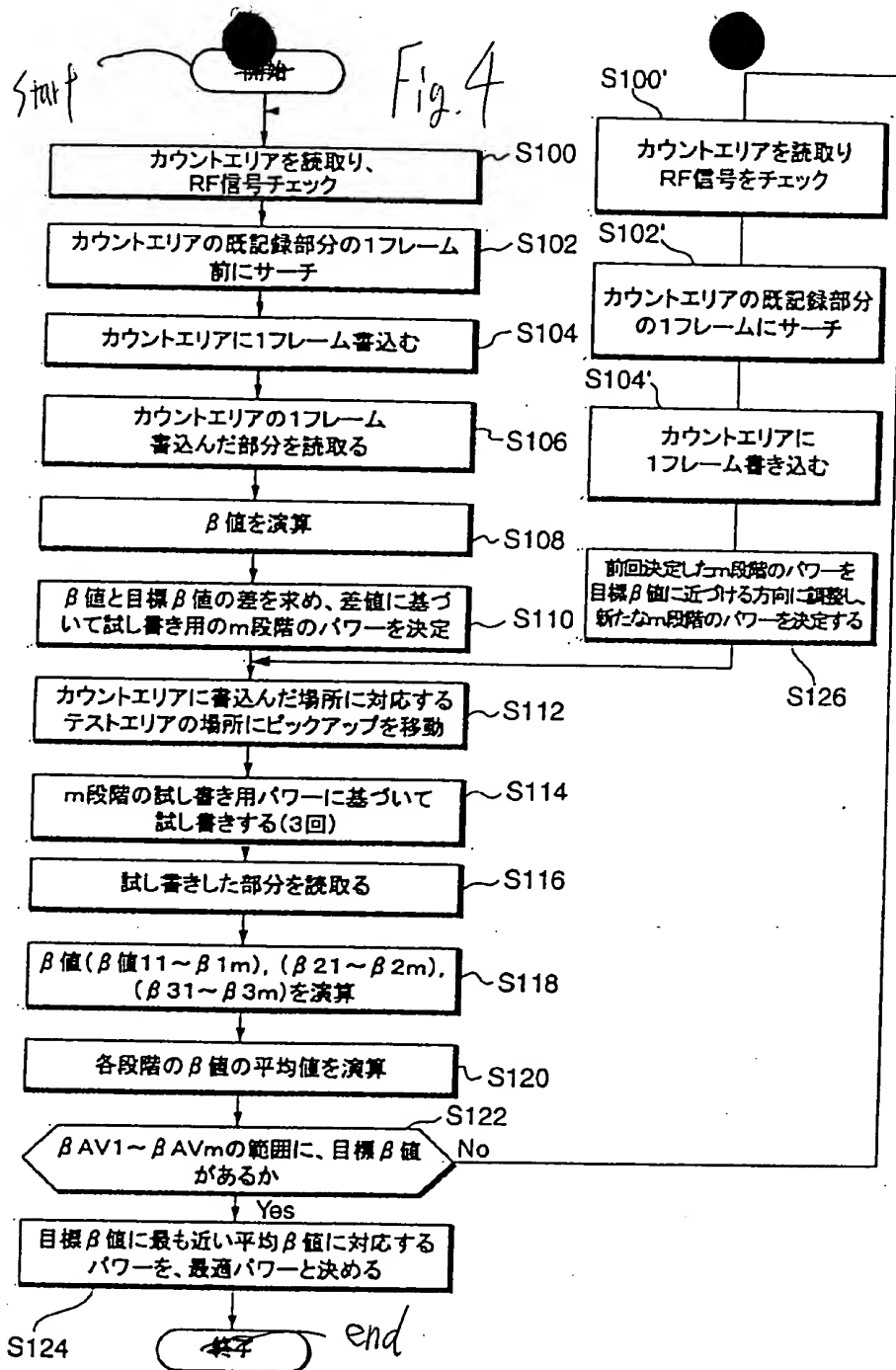
Disk type. ディスクの種類 (k)	target $\beta$ value Data. <del>目標 <math>\beta</math> 値データ</del> $\beta_k$
光ディスクA (k=1)	$\beta_1$
光ディスクB (k=2)	$\beta_2$
光ディスクC (k=3)	$\beta_3$
光ディスクD (k=4)	$\beta_4$

Optical disk

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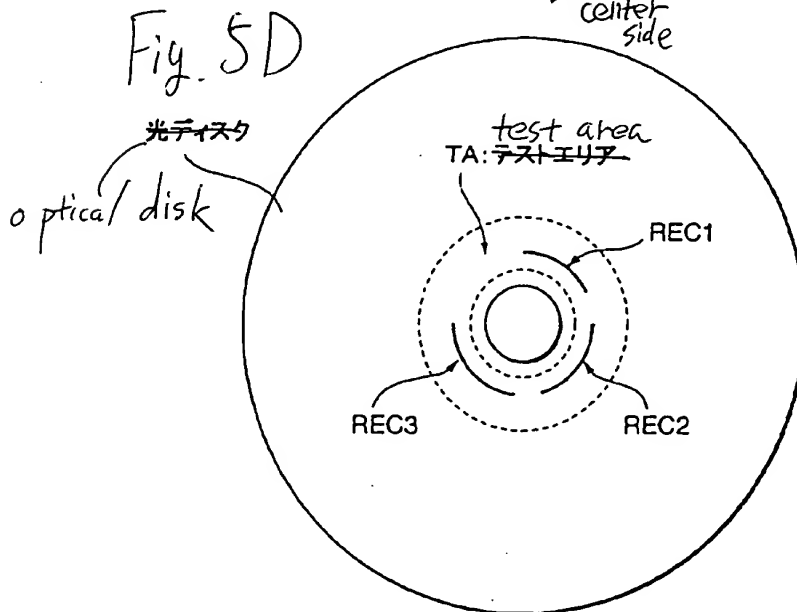
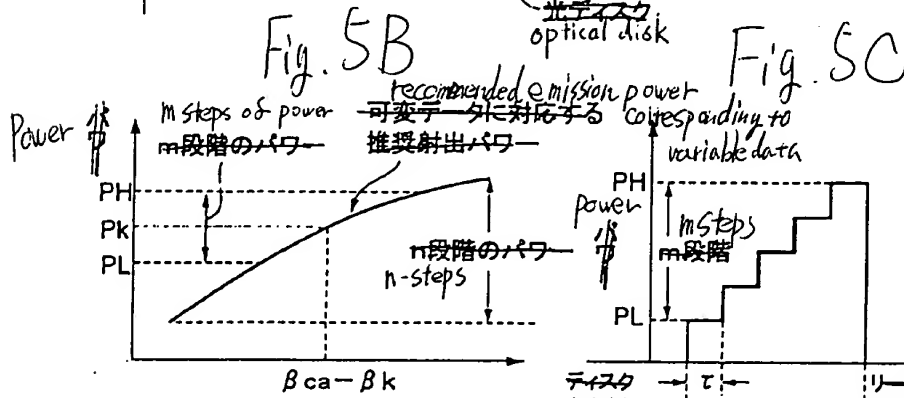
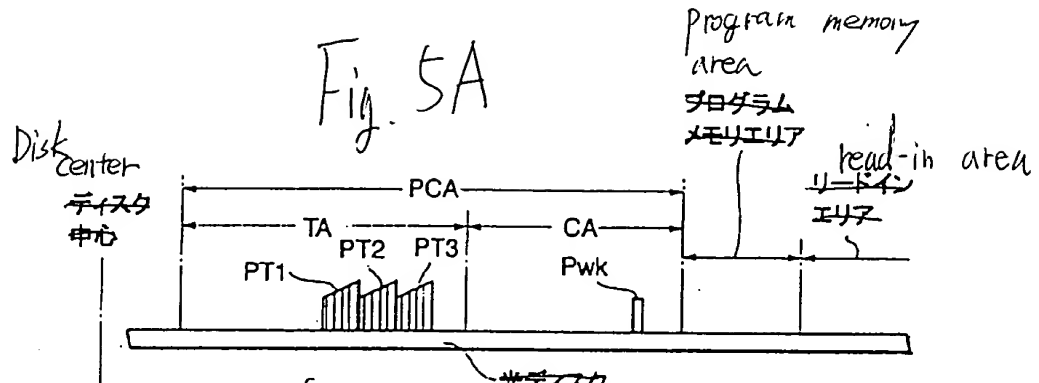
Fig. 3





- S100 READ COUNT AREA AND CHECK RF SIGNAL
- S102 SEARCH FOR LOCATION ONE FRAME BEFORE ALREADY RECORDED PORTION OF COUNT AREA
- S104 WRITE ONE FRAME INTO COUNT AREA
- S106 READ PORTION OF COUNT AREA INTO WHICH ONE FRAME IS WRITTEN
- S108 CALCULATE  $\beta$  value
- S110 FIND DIFFERENCE BETWEEN  $\beta$  value AND TARGET  $\beta$  value AND DETERMINE M STEPS OF POWER FOR TRIAL WRITE BASED ON DIFFERENCE VALUE
- S112 MOVE PICKUP TO LOCATION OF TEST AREA CORRESPONDING TO DATA WRITTEN INTO THE COUNT AREA
- S114 EXECUTE TRIAL WRITE THREE TIMES BASED ON M STEPS OF TRIAL WRITE POWER
- S116 READ TRIAL WRITE PORTIONS
- S118 CALCULATE  $\beta$  values (b11 TO b1m), (b21 TO b2m), AND (b31 TO b3m)
- S120 CALCULATE AVERAGE VALUE OF  $\beta$  values AT EACH STEP
- S122 DOES TARGET  $\beta$  value LIE IN RANGE OF bAV1 TO bAVm?
- S124 DETERMINE THAT POWER CORRESPONDING TO AVERAGE  $\beta$  value CLOSEST TO TARGET  $\beta$  value IS OPTIMUM POWER
- S126 ADJUST M STEPS OF POWER DETERMINED AT THE PRECEDING TIME IN DIRECTION OF BRINGING CLOSE TO TARGET  $\beta$  value AND DETERMINE NEW M STEPS OF POWER
- S100' READ COUNT AREA AND CHECK RF SIGNAL
- S102' SEARCH FOR LOCATION ONE FRAME BEFORE ALREADY RECORDED PORTION OF COUNT AREA
- S104' WRITE ONE FRAME INTO COUNT AREA

FIG. 5A



0961183-092401

Fig. 6

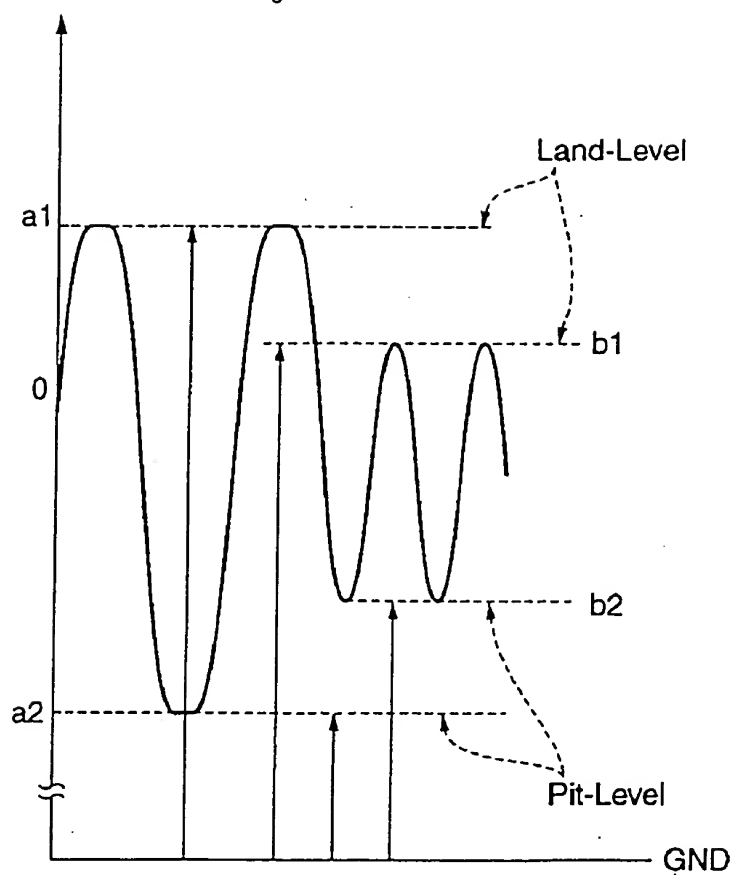
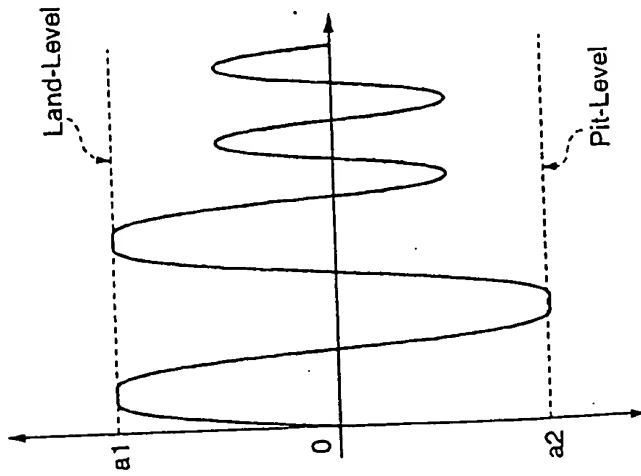
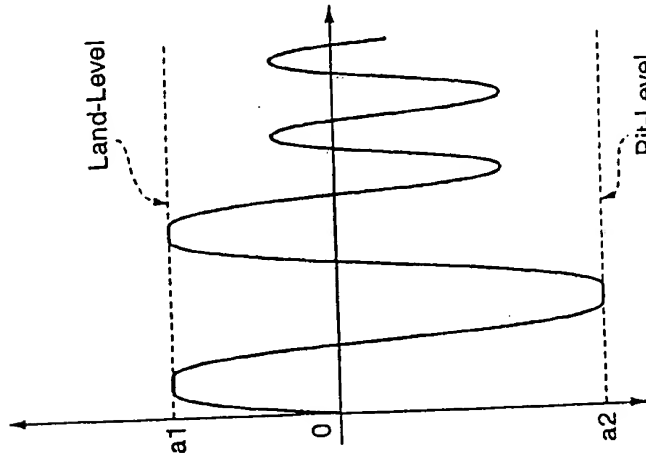


Fig. 7A



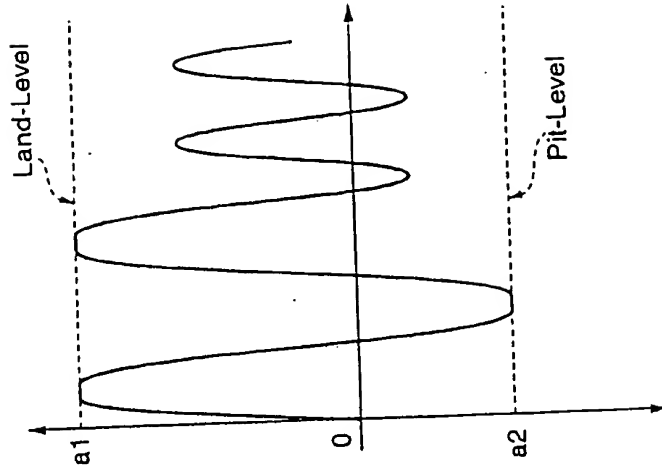
( $\beta \neq 0$ )

Fig. 7B



( $\beta < 0$ )

Fig. 7C



( $0 < \beta$ )

0961183-092401  
104260 EBT 9660

Fig. 8A

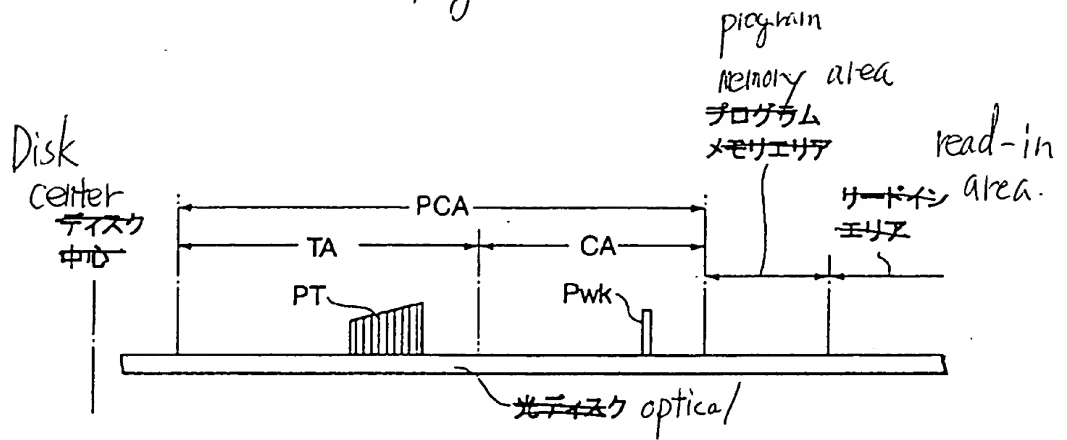


Fig. 8B

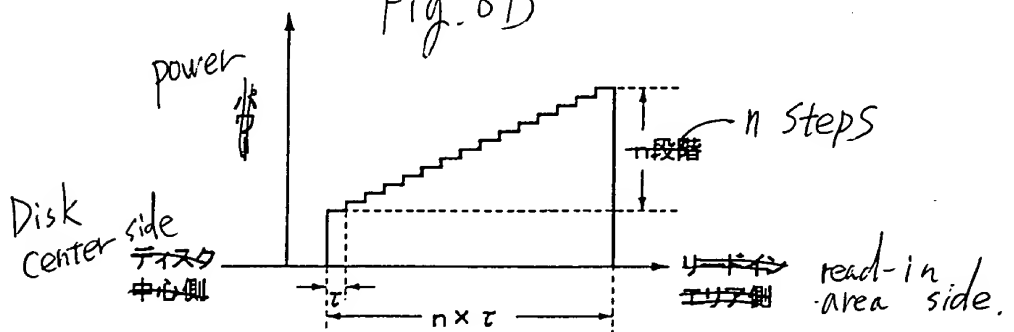


Fig. 8C

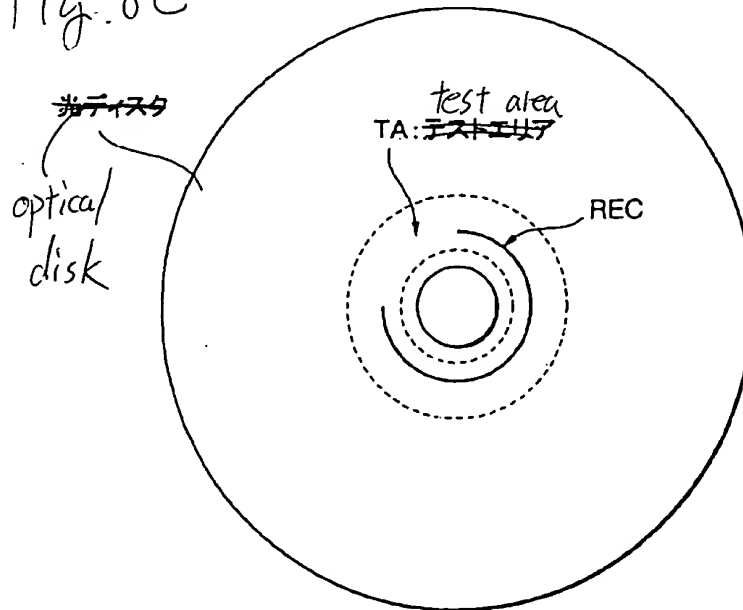
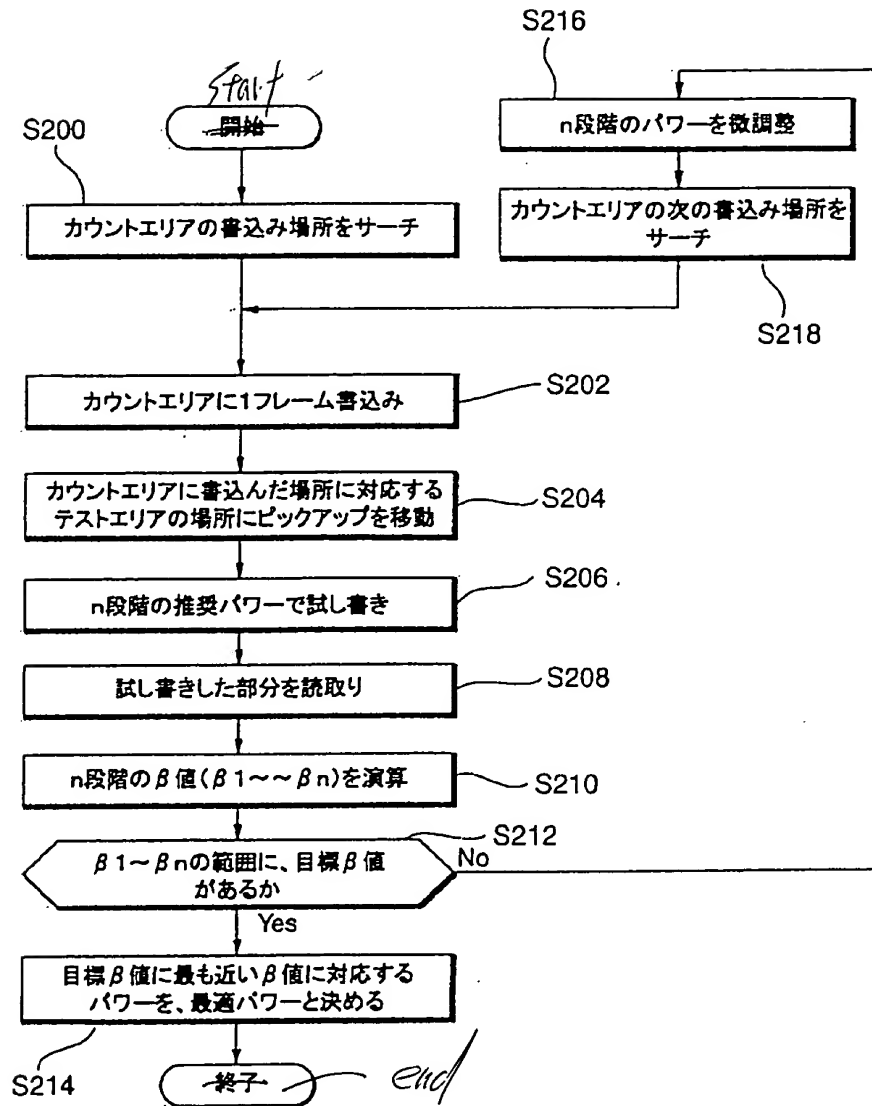




Fig. 9



- S200 SEARCH FOR WRITE LOCATION OF COUNT AREA  
 S202 WRITE ONE FRAME INTO COUNT AREA  
 S204 MOVE PICKUP TO LOCATION OF TEST AREA CORRESPONDING TO WRITE LOCATION INTO COUNT AREA  
 S206 WRITE FOR TRY AT n STEPS OF RECOMMENDED POWER  
 S208 READ TRIAL WRITE PORTION  
 S210 CALCULATE n  $\beta$  valueS  
 S212 DOES TARGET  $\beta$  value LIE IN RANGE OF b1 TO bn?  
 S214 DETERMINE THAT POWER CORRESPONDING TO  $\beta$  value CLOSEST TO TARGET  $\beta$  value IS OPTIMUM POWER  
 S216 FINELY ADJUST n STEPS OF POWER  
 S218 SEARCH FOR ANOTHER WRITE LOCATION OF COUNT AREA